

PACKING SLIP

05 January, 2005

Address:

Alpen Helicopters
215 – 5333 – 216th Street
Langley, B.C.
V2Y 2N3

HOLD FOR PICK-UP IN LANGLEY DEPOT

Attention:

Robert Owens / Sandy Forbes (604) 318-8954

Reference: Your Purchase Order:

Quantity Ordered	Quantity Shipped	Description	Part Number
---------------------	---------------------	-------------	-------------

Documents:

2	2	Supplemental Type Certificate	SH98-45
2	2	Document Control List	2DCL307
2	2	Document Control List	A-307-DCL1
2	2	Flight Manual Supplement	FMS 30717
2	2	Maintenance Manual Supplement	MM307.02
2	2	Maintenance Manual Supplement	MM307.101
2	2	Rescue Hook Installation Drawing	206L-30701, Sht. 1
2	2	Rescue Hook Installation Drawing	206L-30701, Sht. 2
2	2	Suspension Line Installation Drawing	206L-30702
2	2	Suspension Line Assembly Drawing	30730-101
2	2	Release Certificate (Suspension Line)	PC003
2	2	Release Certificate (Swivel Ass'y)	PC003
2	2	Release Certificate (Trolley Blocks)	PC003

Suspension Line:

2	2	Suspension Line Assembly	30730-101
		(inc) Main Line Assembly	30731-101
		(inc) Lanyard Assembly	30732-101
		(inc) Extension Line Assembly	30733-101

Balance of Components for Rescue System:

4	4	Trolley Blocks	30750
1	1	Bolt	AN4-26A
2	2	Washers	AN960-416
1	1	Nut	MS21044N4

PACKING SLIP

22 April, 2004

Address:

Alpen Helicopters
215 – 5333 – 216th Street
Langley, B.C.
V2Y 2N3

Attention:

Robert Owens / Sandy Forbes (604) 318-8954

Reference: Your Purchase Order:

Quantity Ordered	Quantity Shipped	Description	Part Number
1	1	Hook Attachment Fitting Assembly	206L-9803-1
1	1	Universal Swivel Fitting Assembly	206L-9804-1
1	1	Bushing	206L-9803-4
1	1	Nut, Castle, Self Locking, Low Profile	MS17826-12
2	3	Washer	AN960-12L
1	2	Cotter Pin	MS24665-355
1	1	Bolt	AN6-16
1	1	Bolt	AN6-21
2	2	Nut	AN310-6
4	6	Washer	AN960-616
2	4	Cotter Pin	MS24665-283

PACKING SLIP

22 May, 2003

Address:

Alpen Helicopters
215 – 5333 – 216th Street
Langley, B.C.
V2Y 2N3

HOLD FOR PICK-UP IN LANGLEY DEPOT

Attention:

Robert Owens / Sandy Forbes (604) 318-8954

Reference: Your Purchase Order: 101920

Quantity Ordered	Quantity Shipped	Description	Part Number
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Documents:

1	1	Supplemental Type Certificate	SH98-45
1	1	Document Control List	A-307-DCL1
1	1	Document Control List	2DCL307
1	1	Flight Manual Supplement	206L-30717
1	1	Maintenance Manual Supplement	MM307.02
1	1	Maintenance Manual Supplement	MM307.04
1	1	Rescue Hook Installation Drawing	206L-30701, Sheet 1 of 2
1	1	Rescue Hook Installation Drawing	206L-30701, Sheet 2 of 2
1	1	Suspension Line Installation Drawing	206L-30702, Sheet 1 of 2
1	1	Alt. Suspension Line Installation Drawing	206L-30702, Sheet 2 of 2
1	1	Suspension Line Assembly	30730-101
1	1	Suspension Line Assembly	30730-201
1	1	Cyclic Stick Switch Bracket Ass'y	206L-9806
1	1	Release Cable Bracket	206L-9810
1	1	Part Details	206L-9819

Cargo Hook & Equipment:

✓ 1	1	Hook Attachment Ftg. Ass'y	206L-9803
✓ 1	1	Universal Swivel Ass'y	206L-9804
1	1	Modified Rescue Hook (Safety Cap, Bumper Plate, Bushings	206L-9805
1	1	Bumper Block	206L-9819-27

STOP FOR BEN

Quantity Ordered	Quantity Shipped	Description	Part Number
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Hardware:

✓ 1	1	Bolt	AN6-16
✓ 1	1	Bolt	AN6-22
✓ 4	4	Washer	AN960-616
1	1	Washer	AN960-1216L
✓ 2	2	Nut	AN310-6
10	10	Cotter Pin	MS24665-283
10	10	Cotter Pin	MS24665-357

Suspension Line:

-	1	Main Line Assembly	8904
1	1	Extension Line Assembly	30733-101
1	1	Lanyard Assembly	30732-101
1	b/o	Main Line Assembly	30731-101

Returned (Removed) Components:

-	2	Bushings	
-	1	Release Knob Ass'y	
-	1	Inspection Data Plate	

WORK ORDER

Order Date: 01/04/04
D / M / Y

W.O. Number # 2004-13

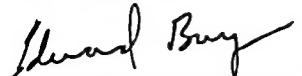
Current yyyy - 000

Customer Purchase Order: 101920

NOTE: A new file must be opened for each work order and a unique sequential number assigned.

Expected Completion Date: _____

This Work Order is part of a set of Incorporated Documents referenced in the Quality Program Manual of AERO Design Ltd. as Process Control Forms. It has been developed in compliance with the quality records requirements of an Approved Manufacturing Facility of aeronautical parts and products under CARS PART V Chapter 61, and AWM Advisories 561/1, 2, 3A & 4 effective January 1, 1986.


President, AERO Design Ltd.

A. PREPARATION

1. Type Approval Authority

All work detailed in this Work Order is to be completed in accordance with:

Supplemental Type Certificate: SH98-45 Issue: 3

2. Scope of Work

Component Parts

Fabrication of 4 Hook Attachment and Swivel Ass'y 9803 & 9804
4 Trolley Blocks 30750

Traceability: Date of Manufacture: _____

Document Serial Numbers in this Work Order Section D - Final Inspection & Sign-Off of Aeronautical Products N/A

3. Work Order Package Preparation

Document Control List: A-307-DCL1 Rev.13

Set of new drawings for fabrication.

Notes: _____

Order Date: 01/04/04
D/M/Y

W.O. Number # 2004-13
Current yyyy - 000

B. PARTS LIST

Component fabrication:

Notes: _____

Order Date: 01/04/04
D / M / Y

W.O. Number # 2004-13
Current yyyy - 000

C. INSPECTION & SIGN-OFF OF COMPONENT PARTS & ASSEMBLIES

1. Inspection of Component Parts

I hereby certify that I have inspected the aeronautical component parts manufactured under this Work Order and have found them to be in conformity to the Approved Design Data specified within the Work Scope, except where specifically identified and noted as non-conforming.

Date

Inspector's Signature

D. FINAL INSPECTION & SIGN-OFF OF AERONAUTICAL PRODUCTS

ITEM	SERIAL NUMBER	ACCEPT YES/NO	NON-CONFORMANCES Non-Conformance Report #'s	ADDITIONAL REMARKS
1				

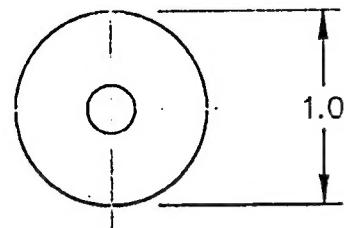
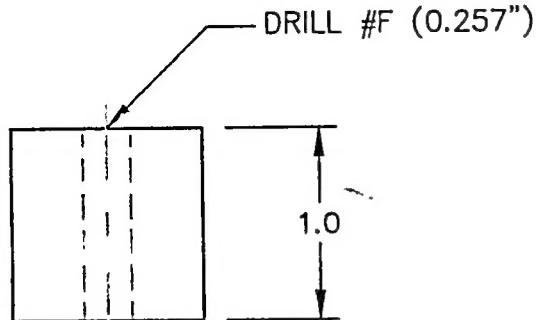
I hereby certify that I have inspected the aeronautical component parts manufactured under this Work Order and have found them to be in conformity to the Approved Design Data specified within the Work Scope, except where specifically identified and noted as non-conforming.

Date

DAR or Inspector's Signature

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REV.	DESCRIPTION OF CHANGE	INITIALS	DATE
0	INITIAL ISSUE	STF	MAY 11, 04



2	30750-01	01	TROLLEY BLOCK	6061 ALUMINUM	QQ-A-225/8	1.0" ROUND BAR
01	PART NO.	ITEM	DESCRIPTION	MATERIAL	MATERIAL SPEC	STOCK SIZE
QTY	LIST OF MATERIALS					
APPROVALS DRAWN: S. FAHEY CHECKED: E. BURGOIN		DATE MAY 11/04	AERO DESIGN LTD. CONSULTING ENGINEERS, TRANSPORT CANADA APPROVALS, DAR 290M 2013 - 39TH AVENUE N.E., CALGARY, ALBERTA, CANADA, T2E 6R7 tel: (403) 250-8027 fax: (403) 250-8333 aerodesign@telusplanet.net			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES. TOLERANCES ON: DECIMALS ANGLES X.XXX ± 0.010 $\pm 1/2^\circ$ X.XX ± 0.03 X.X ± 0.1		HELICOPTER RESCUE SYSTEM BELL 206L/L1/L3/L4 HELICOPTERS TROLLEY BLOCKS				
		SCALE 1 : 1	DWG. SIZE A4	DWG. NO. 30750	REV. 0	
		SHEET 1 OF 1				

AERO Design Ltd.
2013 - 39th Ave, NE
Calgary, AB, T2E 6R7

AUTHORIZED RELEASE CERTIFICATE

Transport Canada

AMF # 73-04

Product: SUSPENSION LINE ASSY Part #: 30730-101

Approval #: SH 98-45 Serial #: MPD. NOV. 2004

WO #: 2004-12 Quantity: 2

Eligibility: BELL 206L / MD 369+500 Work Status: Manufactured

Remarks: _____

I hereby certify that I have inspected the aeronautical component parts and have found them to be in compliance with the applicable airworthiness standards.

JAN 5/05

Date

DAR or Inspector's Signature

AERO Design Ltd.
2013 - 39th Ave, NE
Calgary, AB, T2E 6R7

AUTHORIZED RELEASE CERTIFICATE

Transport Canada

AMF # 73-04

Product: TROLLEY BLOCKS Part #: 30750

Approval #: SH 98-45 155.3 Serial #: _____

WO #: 2004-13 Quantity: 4

Eligibility: BELL 206L- SERIES Work Status: Manufactured

Remarks: _____

I hereby certify that I have inspected the aeronautical component parts and have found them to be in compliance with the applicable airworthiness standards.

5 JAN 2005

Date

DAR or Inspector's Signature

AERO Design Ltd.
2013 - 39th Ave, NE
Calgary, AB, T2E 6R7

AUTHORIZED RELEASE CERTIFICATE

Transport Canada

AMF # 73-04

Product: HOOK ATTACH + SWIVEL ASSY Part #: 9803 & 9804

Approval #: SH 98-45 155.3 Serial #: _____

WO #: 2004-13 Quantity: 2 ASSEMBLIES

Eligibility: BELL 206L SERIES Work Status: Manufactured

Remarks: _____

I hereby certify that I have inspected the aeronautical component parts and have found them to be in compliance with the applicable airworthiness standards.

22 APRIL 2004

Date

DAR or Inspector's Signature

WORK ORDER

Order Date: 01/10/04
D / M / Y

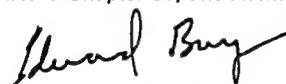
W.O. Number # 2004-12
Current yyyy - 000

Customer Purchase Order: 101920

Expected Completion Date: _____

NOTE: A new file must be opened for each work order and a unique sequential number assigned.

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President, AERO Design Ltd.

A. PREPARATION

1. Type Approval Authority

All work detailed in this Work Order is to be completed in accordance with:

Supplemental Type Certificate: SH98-45 Issue: 3

2. Scope of Work

a) Complete Product

Fabrication of 2, Suspension Line System 30730-101
Qty Item

Traceability: Date of Manufacture: NOV 2004

Document Serial Numbers in this Work Order Section D - Final Inspection & Sign-Off of Aeronautical Products N/A.

3. Work Order Package Preparation

Document Control List: 2DCL307 Rev.2

Full set of new drawings for complete fabrication.

Notes: _____

Order Date: 01/10/04
D/M/Y

W.O. Number # 2004-12
Current yyyy - 000

B. PARTS LIST

1 Complete fabrication: This list may not be used as Final Inspection Record.

Notes:

Order Date: 01/10/04
D / M / Y

W.O. Number # 2004-12
Current yyyy - 000

C. INSPECTION & SIGN-OFF OF COMPONENT PARTS & ASSEMBLIES

1. Inspection of Component Parts

I hereby certify that I have inspected the aeronautical component parts manufactured under this Work Order and have found them to be in conformity to the Approved Design Data specified within the Work Scope, except where specifically identified and noted as non-conforming.

Date

Inspector's Signature

D. FINAL INSPECTION & SIGN-OFF OF AERONAUTICAL PRODUCTS

ITEM	SERIAL NUMBER	ACCEPT YES/NO	NON-CONFORMANCES Non-Conformance Report #'s	ADDITIONAL REMARKS
1	NOV. 2004	Y		
2	NOV. 2004	Y		

I hereby certify that I have inspected the aeronautical component parts manufactured under this Work Order and have found them to be in conformity to the Approved Design Data specified within the Work Scope, except where specifically identified and noted as non-conforming.

NOV. 2004
Date

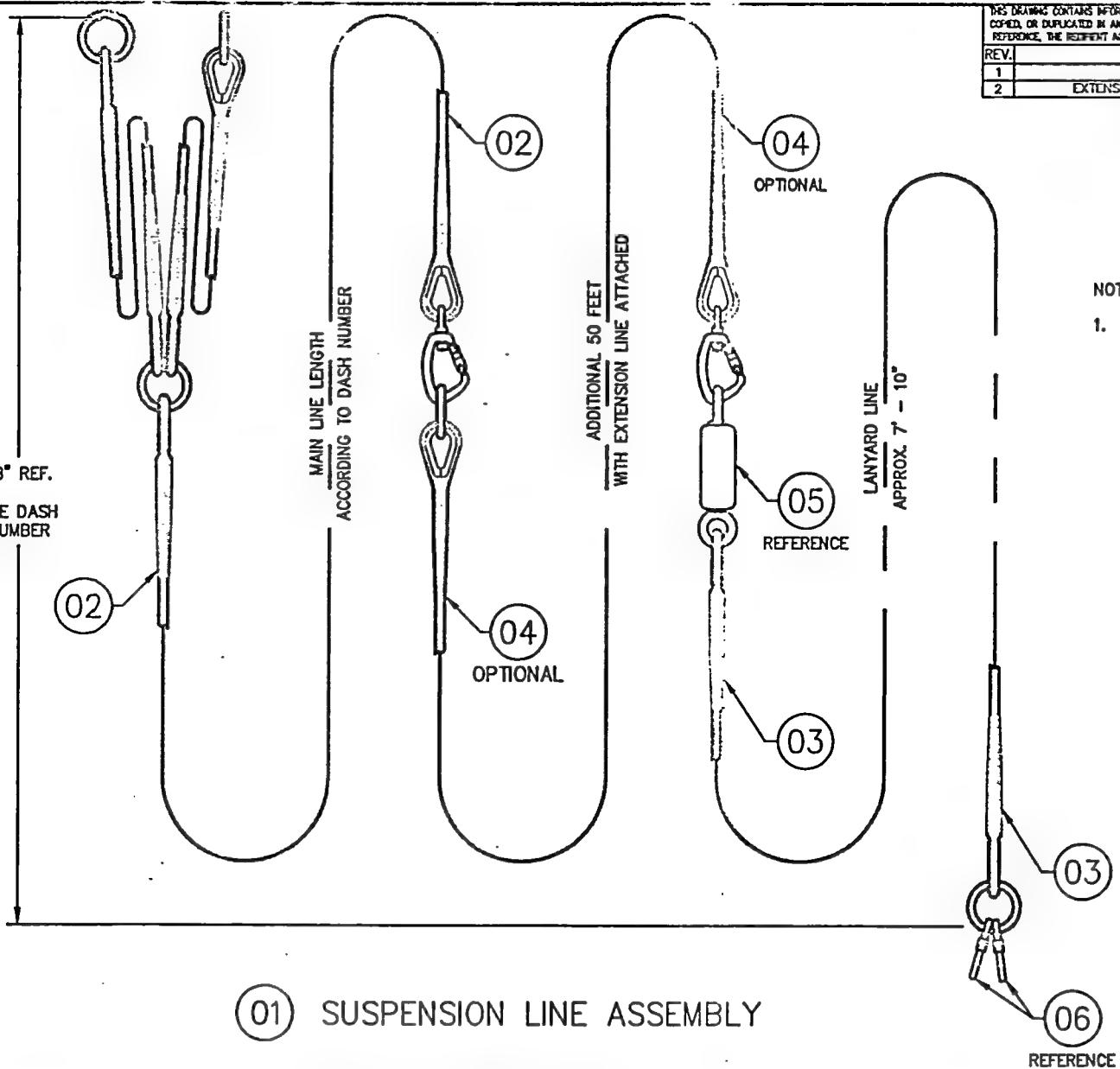
S. Taylor
DAR or Inspector's Signature

DOCUMENT CONTROL LIST

DOCUMENT NO.	DOCUMENT CONTENT	REVISION
INSTALLATION DOCUMENTS		
30730-101 MI:307.101	Suspension Line Assembly Maintenance Manual Supplement	2 0
FABRICATION DOCUMENTS		
30731-101 30732-101 30733-101 30734-101 30735-101	Main Line Assembly Lanyard Assembly Extension Line Assembly Weight Assembly Splicing Instructions	2 2 2 2 0
ENGINEERING DOCUMENTS		
ER307.101 FTR377.02	Engineering Report - Suspension Line Assembly Flight Test Report - MD 369 and 500N	1 0
APPROVAL:		
 <p>Transport Canada Transport Canada</p> <p>AIRCRAFT CERTIFICATION DIVISION</p> <p>APPROVED By <i>D. S. Austin</i></p> <p>App'l No. SH98-45</p> <p>Appl Date 98-08-12</p> <p>Issue No. 5</p> <p>Issue Date 04-04-23 YY-MM-DD</p>	<p>ORIGINAL DATE: 13 March, 2001</p> <p>REVISION DATE: 1 June, 2004</p>	<p>AERO DESIGN LTD. 2013 - 39th Avenue, NE Calgary, Alberta T2E 6R7 Ph. (403) 250-8027 Fax. (403) 250-8333</p>
	SHEET 1 OF 1	HELICOPTER RESCUE SYSTEM SUSPENSION LINE ASSEMBLY SAMSON ULTRA-TECH (443) ROPE
		Rev.
	2DCL307	2

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REV.	DESCRIPTION OF CHANGE	INITIALS	DATE
1	REMOVED REDUNDANT CARABINER NOTE	STF	OCT 10/03
2	EXTENSION LINE ELIMINATED, SELECTION OF LENGTHS, REDRAWN	STF	JUN 01/04

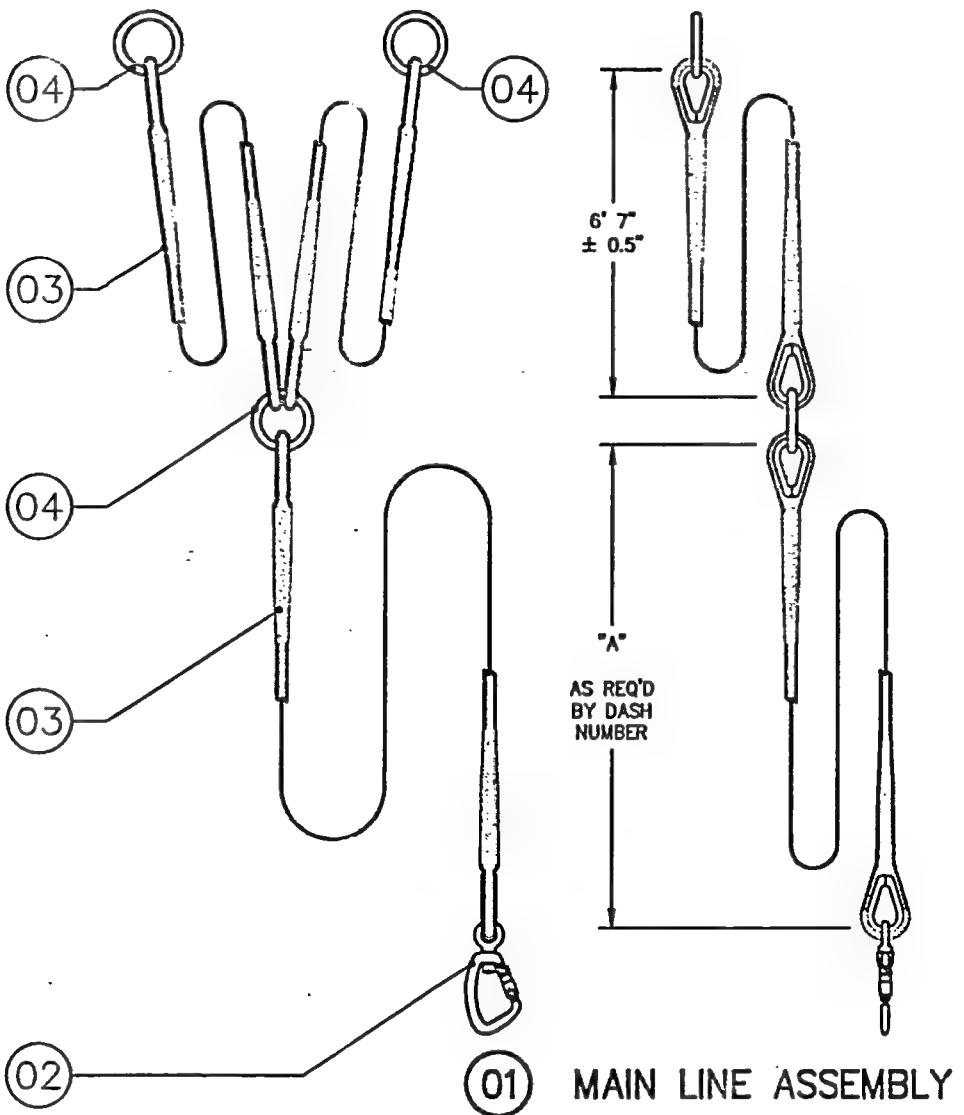


01 SUSPENSION LINE ASSEMBLY

2	2	2	2	2	06	CARABINER (REFERENCE)	CSA/ANSI/NFPA/CE
1	1	1	1	1	30734-101	05	WEIGHT ASSEMBLY (REFERENCE - INCL IN 30732-101)
1	1	1	1	1	30733-101	04	EXTENSION ASSEMBLY (OPTIONAL) 50'
1	1	1	1	1	30732-101	03	LANYARD ASSEMBLY 6' - 7'
-150	-125	-100	-75	-50	30731-101	02	MAIN LINE ASSEMBLY ACCORDING TO DASH
					30730-101	-150	SUSPENSION LINE ASSEMBLY "B" = 150'
					30730-101	-125	SUSPENSION LINE ASSEMBLY "B" = 125'
					30730-101	-100	SUSPENSION LINE ASSEMBLY "B" = 100'
					30730-101	-75	SUSPENSION LINE ASSEMBLY "B" = 75'
					30730-101	-50	SUSPENSION LINE ASSEMBLY "B" = 50'
-150	-125	-100	-75	-50	PART NO.	ITEM	DESCRIPTION LENGTH
QTY.	QTY.	QTY.	QTY.	QTY.			LIST OF MATERIALS

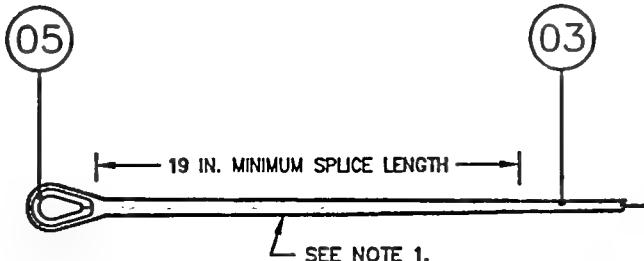
APPROVALS	DATE	AERO DESIGN LTD.		
DRAWNG: DAVID WAGNER	03 MAR 2001	CONSULTING ENGINEERS, TRANSPORT CANADA APPROVALS, DAR 290M		
CHECKED: E. BURGOIN	03 MAR 2001	2013 - 39TH AVENUE N.E., CALGARY, ALBERTA, CANADA, T2E 6R7		
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON: DECIMALS ANGLES			HELICOPTER RESCUE LINE HERZOG ULTRA-TECH ROPE SUSPENSION LINE SUSPENSION LINE ASSEMBLY	
NOT TO SCALE	DWG. SIZE	DWG. NO.		REV.
SHEET 1 OF 1	A4	30730-101		2

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REV.	DESCRIPTION OF CHANGE	INITIALS	DATE
1	INCREASED LOAD, COMPONENTS CHANGED	STF	OCT 09/03
2	TEST METHOD CHANGED, SELECTION OF LENGTHS, REDRAWN & UPDATED	STF	JUN 01/04



NOTES

1. SPLICE TO BE MADE IN ACCORDANCE WITH AERO DESIGN SPECIFICATION 30735-101 "SPLICING INSTRUCTIONS, ULTRA-TECH ROPE".
2. MAIN LINE ASS'Y SHALL BE PROOF TESTED TO 3,150 POUNDS.
3. ULTRA-TECH ROPE USED MUST BE CERTIFIED BY THE MANUFACTURER TO A MINIMUM STRENGTH OF AT LEAST 12500 LBS. CERTIFICATION DOCUMENTS TO BE INCLUDED IN SHIPPING DOCUMENTS WITH EACH BATCH PURCHASED.



DETAIL "A" - SPLICE DETAILS

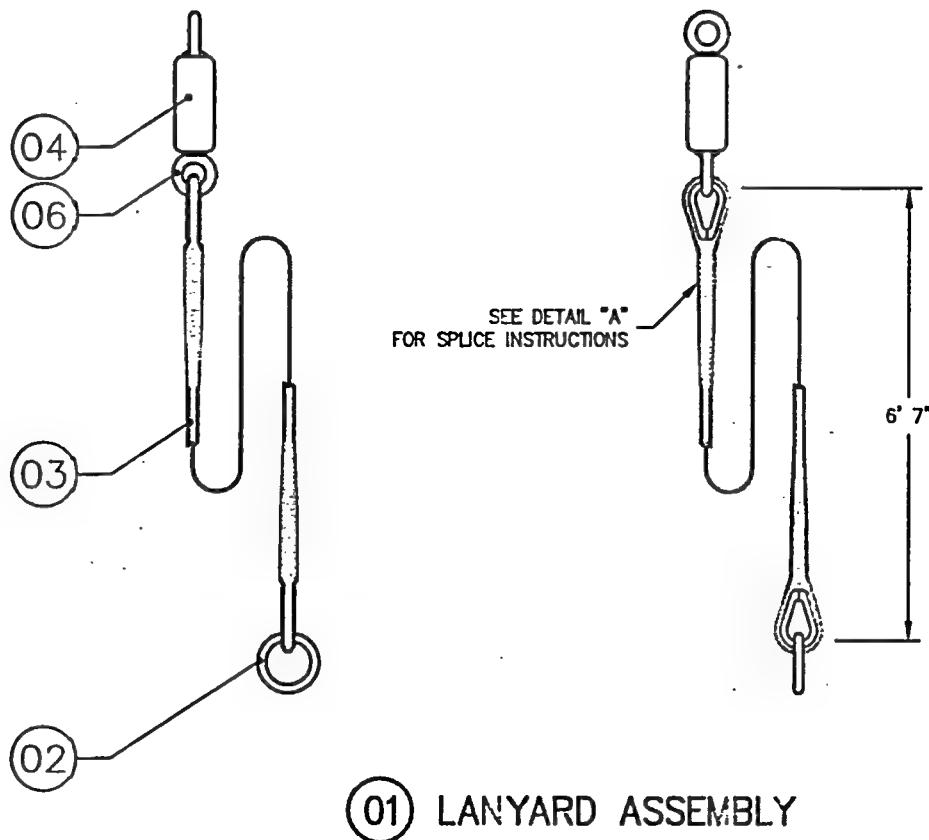
6	6	6	6	6	6	6411-1037354	05	WIRE ROPE THIMBLE	CROSBY CANADA LTD.	
3	3	3	3	3	3	5011	04	RING	US FORCECRAFT	
A/R	A/R	A/R	A/R	A/R	A/R	443	03	ULTRA-TECH DOUBLE BRAID ROPE	SAMSON (HERZOG) ROPE TECH LTD.	7/16" DIA.
1	1	1	1	1	1	C9531	02	SWIVEL EYE CARABINER	PENINSULA SAFETY	
						30731-101	-150	MAIN LINE ASSEMBLY		"A" = 134'-7"
						30731-101	-125	MAIN LINE ASSEMBLY		"A" = 109'-7"
						30731-101	-100	MAIN LINE ASSEMBLY		"A" = 84'-7"
						30731-101	-75	MAIN LINE ASSEMBLY		"A" = 59'-7"
						30731-101	-50	MAIN LINE ASSEMBLY		"A" = 34'-7"
-150	-125	-100	-75	-50		PART NO.	ITEM	DESCRIPTION	MANUFACTURER	SIZE
QTY.	QTY.	QTY.	QTY.	QTY.						

LIST OF MATERIALS

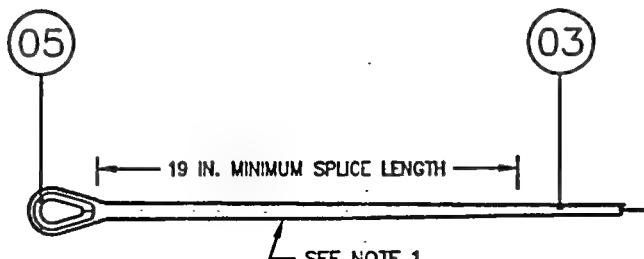
APPROVALS	DATE	AERO DESIGN LTD.		
DRAFTER: DAVID WAGNER	03 MAR 2001	CONSULTING ENGINEERS, TRANSPORT CANADA APPROVALS, DAR 290M		
CHECKER: E. BURGOIN	03 MAR 2001	2019 - 39TH AVENUE N.E., CALGARY, ALBERTA, CANADA, T2E 6R7		
		tel: (403) 250-8027	fax: (403) 250-8333	email: aerodesign@telusplanet.net
		HELICOPTER RESCUE LINE HERZOG ULTRA-TECH ROPE SUSPENSION LINE MAIN LINE ASSEMBLY		
NOT TO SCALE	DWG. SIZE	DWG. NO.		REV.
SHEET 1 OF 1	A4	30731-101		2

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01 LANYARD ASSEMBLY



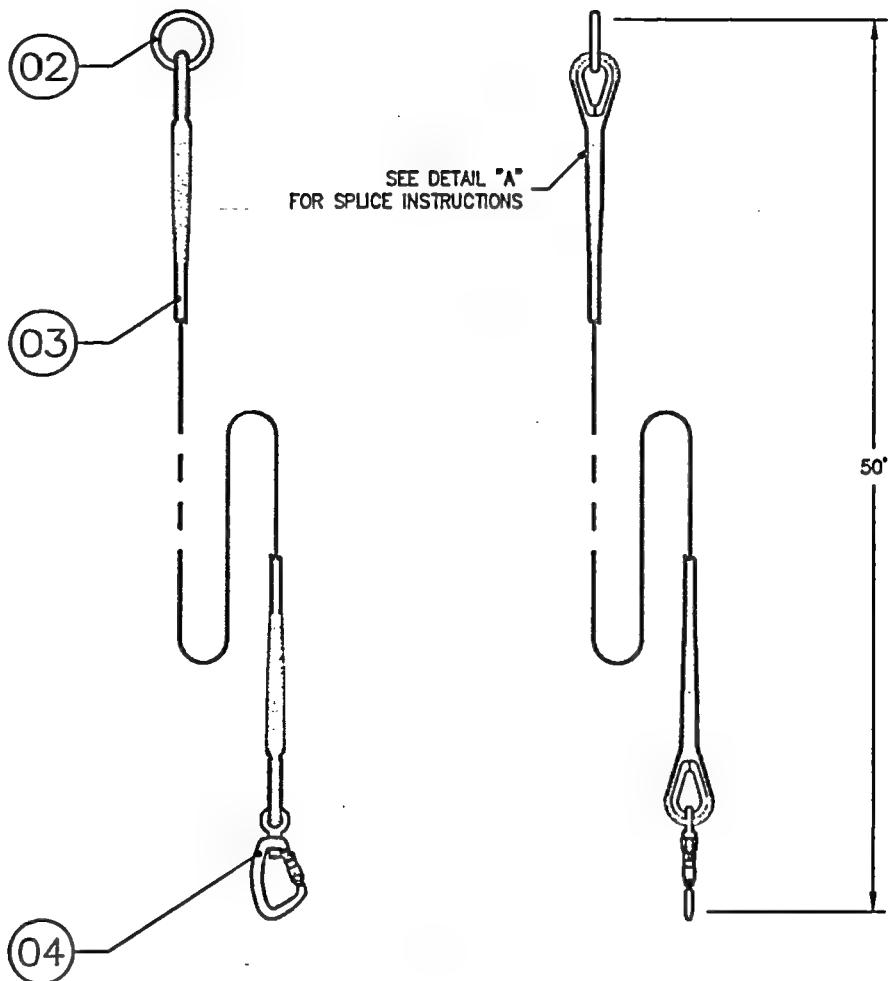
DETAIL "A" - SPLICE DETAILS

1	S-279-9900235	06	SHOULDER EYE BOLT	CROSBY CANADA LTD.
2	G411-1037354	05	WIRE ROPE THIMBLE	CROSBY CANADA LTD.
	30734-101	04	WEIGHT ASSEMBLY (REF)	
A/R	443	03	ULTRA-TECH DOUBLE BRAID ROPE	SAMSON (HERZOG) ROPE TECH. LTD.
1	5011	02	RING	CARLETON RESCUE
	30732-101	01	LANYARD ASSEMBLY	
01	PART NO.	ITEM	DESCRIPTION	MANUFACTURER
QTY.			LIST OF MATERIALS	

APPROVALS	DATE	AERO DESIGN LTD.		
DRAWN BY: DAVID WAGNER	03 MAR 2001	CONSULTING ENGINEERS, TRANSPORT CANADA APPROVALS, DAR 290M 2013 - 39TH AVENUE N.E., CALGARY, ALBERTA, CANADA, T2E 6Z7 tel: (403) 250-8022 fax: (403) 250-6333 aerodesign@telusplanet.net		
CHECKED: E. BURGOIN	03 MAR 2001	HELICOPTER RESCUE LINE HERZOG ULTRA-TECH ROPE SUSPENSION LINE LANYARD ASSEMBLY		
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES. TOLERANCES ON: DECIMALS ANGLES $X-X'$ $\pm 6''$ -		NOT TO SCALE	DWG. SIZE	DWG. NO.
SHEET 1 OF 1		A4	30732-101	2

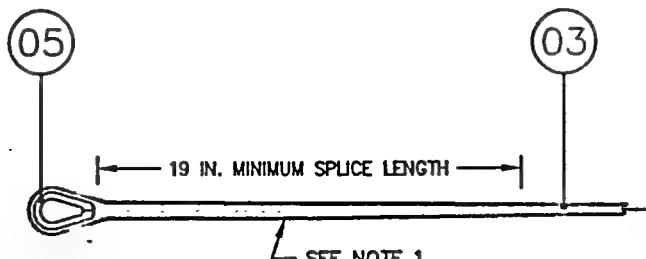
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REV.	DESCRIPTION OF CHANGE	INITIALS	DATE
1	INCREASED LOAD, COMPONENTS CHANGED	STF	OCT 09/03
2	TEST METHOD CHANGED, REDRAWN & UPDATED	STF	JUN 01/04



NOTES

1. SPLICE TO BE MADE IN ACCORDANCE WITH AERO DESIGN SPECIFICATION 30735-101 "SPLICING INSTRUCTIONS, ULTRA-TECH ROPE".
2. MAIN LINE ASS'Y SHALL BE PROOF TESTED TO 3,150 POUNDS.
3. ULTRA-TECH ROPE USED MUST BE CERTIFIED BY THE MANUFACTURER TO A MINIMUM STRENGTH OF AT LEAST 12500 LBS. CERTIFICATION DOCUMENTS TO BE INCLUDED IN SHIPPING DOCUMENTS WITH EACH BATCH PURCHASED.



DETAIL "A" - SPLICE DETAILS

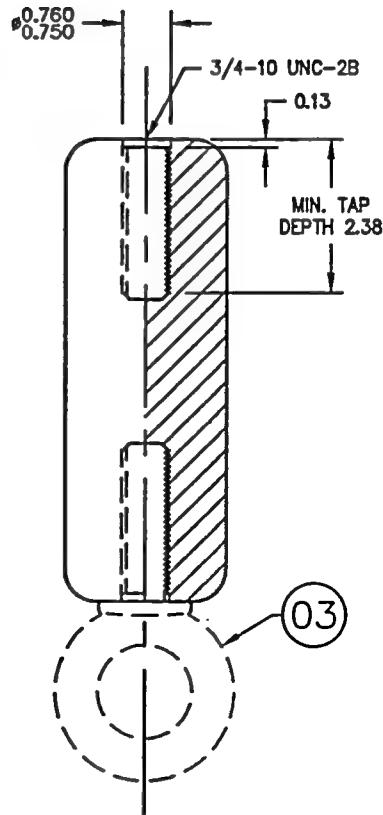
01 EXTENSION ASSEMBLY

2	G411-1037354	05	WIRE ROPE THIMBLE	CROSBY CANADA LTD.
1	C9531	04	SWIVEL EYE CARABINER	PENINSULA SAFETY
A/R 443	03	ULTRA-TECH DOUBLE BRAID ROPE	SAMSON (HERZOG) ROPE TECH. LTD.	7/16" DIA.
1 5011	02	RING	CARLETON RESCUE	
30733-101	01	EXTENSION LINE ASSEMBLY		
01	PART NO.	ITEM	DESCRIPTION	MANUFACTURER
QTY.			LIST OF MATERIALS	MATERIAL SPEC.

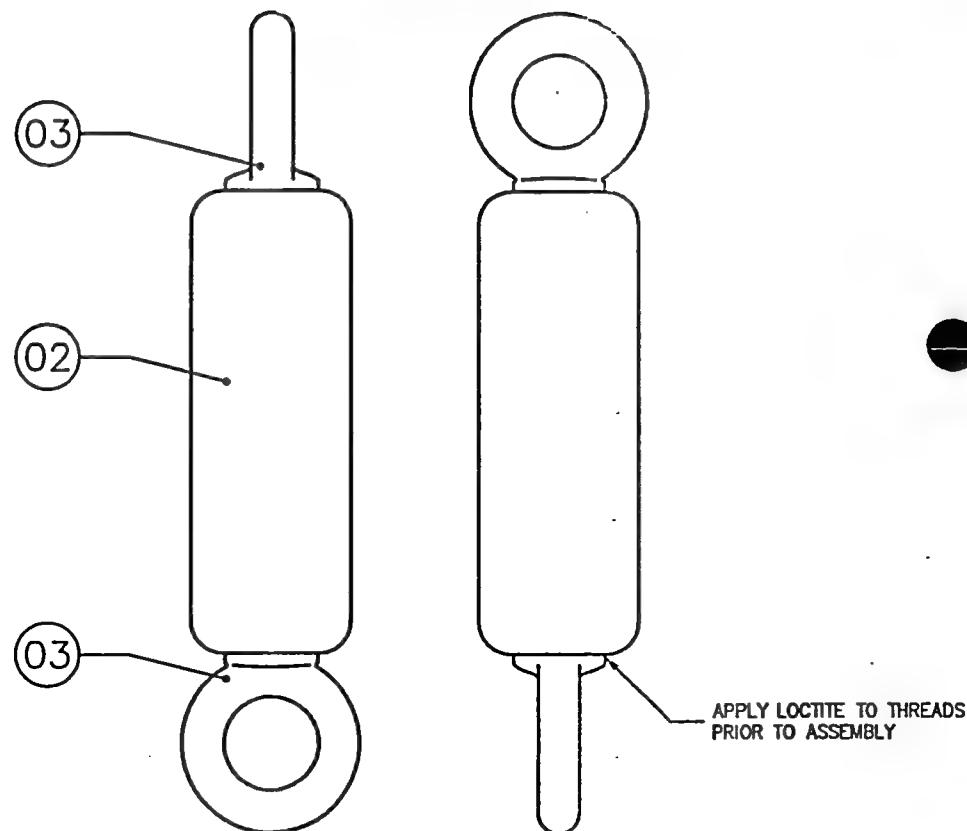
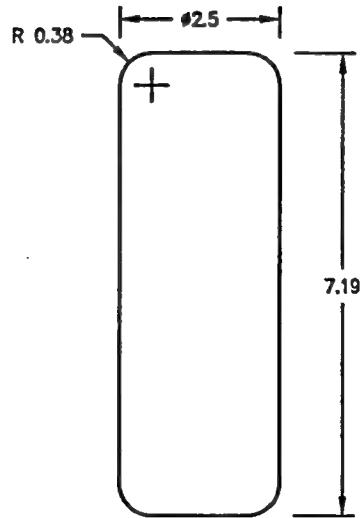
APPROVALS		DATE	AERO DESIGN LTD.			
DRAWD	DAVID WAGNER	03 MAR 2001	CONSULTING ENGINEERS, TRANSPORT CANADA APPROVALS, DAR 290M 2013 - 39TH AVENUE N.E., CALGARY, ALBERTA, CANADA, T2E 6R7 tel: (403) 250-8087 fax: (403) 250-8533			
CHECKED	E. BURGESS	03 MAR 2001	aero.design@telusplanet.net			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES. TOLERANCES ON: DECIMALS ANGLES $X-X'$ $\pm 6^\circ$ -						
HELICOPTER RESCUE LINE HERZOG ULTRA-TECH ROPE SUSPENSION LINE EXTENSION ASSEMBLY						
NOT TO SCALE	DWG. SIZE	DWG. NO.	REV.			
SHEET 1 OF 1	A4	30733-101	2			

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REV.	DESCRIPTION OF CHANGE	INITIALS	DATE
1	INCREASED TEST LOAD	STF	OCT 08/03
2	TEST METHOD CHANGED, REDRAWN & UPDATED	STF	JUN 01/04



(02) WEIGHT



(01) WEIGHT ASSEMBLY

NOTES:

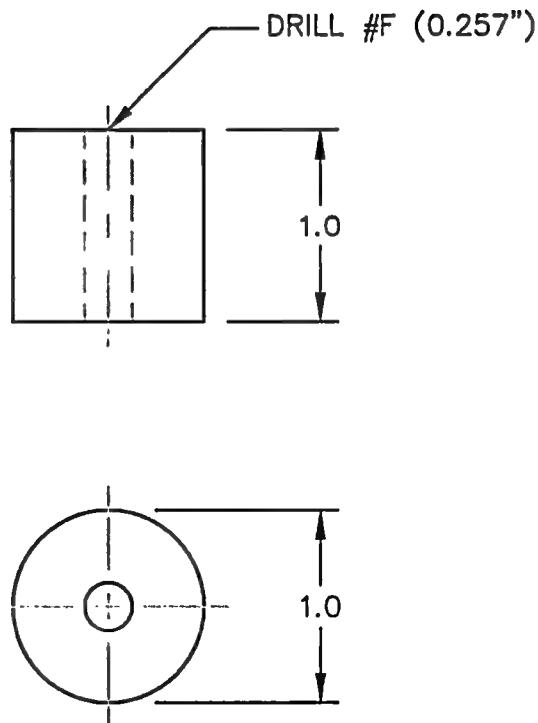
1. THOROUGHLY DEGREASE WEIGHT ASS'Y. POWDER COAT "CATERPILLAR YELLOW".

2	S-279-9900235	03	MACHINERY EYE BOLT	CROSBY	3/4" X 2" EYE BOLT
1	30734-02	02	WEIGHT	4130 RND. BAR	ASTM A751 / NACM MR 175 #2.5 ROUND
	30734-101	01	WEIGHT ASSEMBLY		
01	PART NO.	ITEM	DESCRIPTION	MATERIAL	MATERIAL SPEC.
QTY.			LIST OF MATERIALS		

APPROVALS	DATE	AERO DESIGN LTD.		
DRAWD: DAVID WAGNER	03 MAR 2001	CONSULTING ENGINEERS, TRANSPORT CANADA APPROVALS, DAR 290M 2013 - 39TH AVENUE N.E., CALGARY, ALBERTA, CANADA, T2E 6Z7		
CHECKED: E. BURGOIN	03 MAR 2001	tel: (403) 250-8027	fax: (403) 250-8333	aerodesign@telusplanet.net
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES. TOLERANCES ON: DECIMALS ANGLES X-X" ±6" -				
HELICOPTER RESCUE LINE HERZOG ULTRA-TECH ROPE SUSPENSION LINE WEIGHT ASSEMBLY				
NOT TO SCALE	DWG. SIZE	DWG. NO.	REV.	
SHEET 1 OF 1	A4	30734-101	2	

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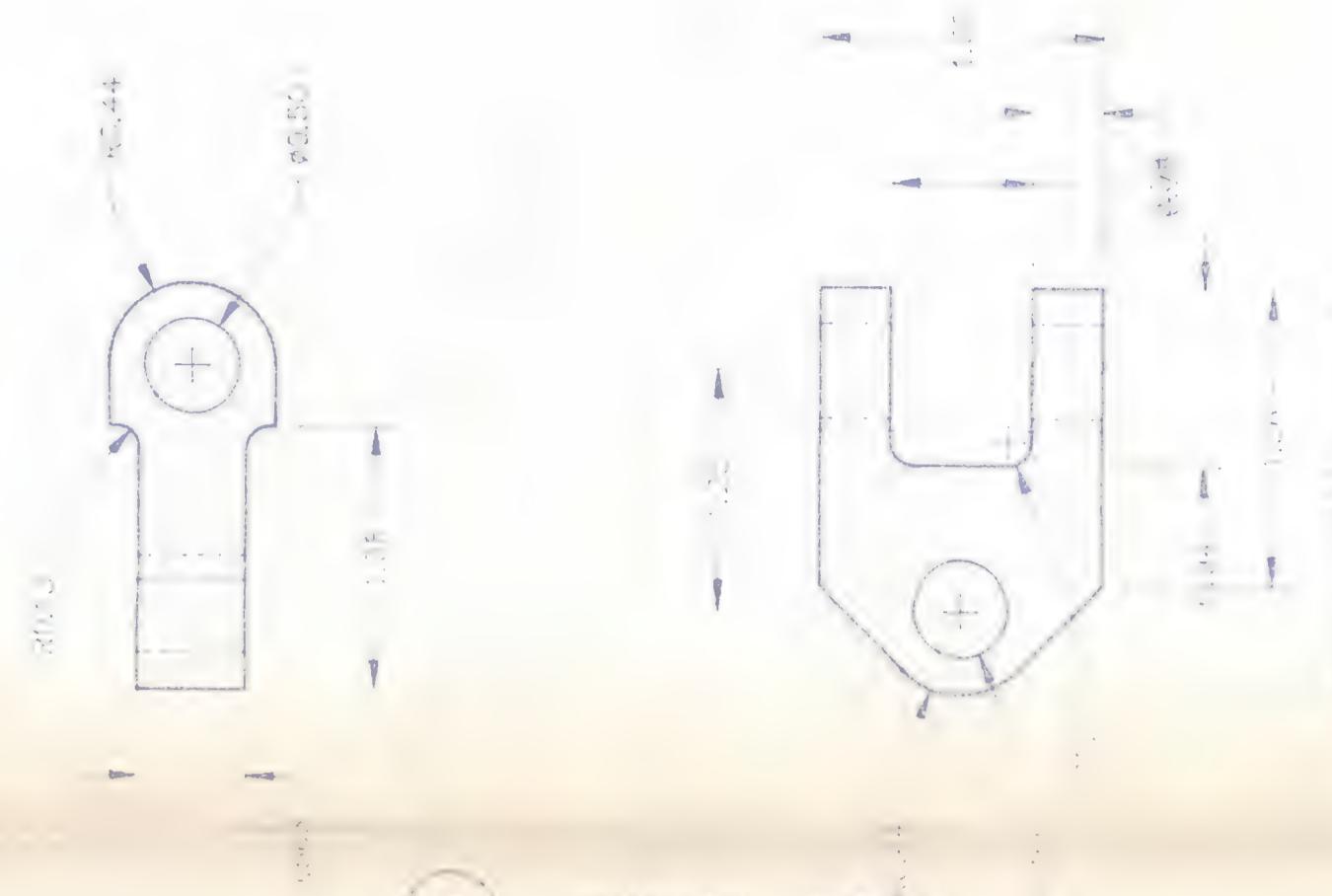
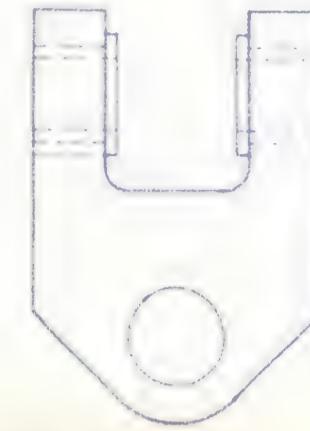
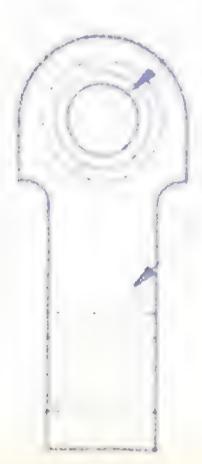
REV.	DESCRIPTION OF CHANGE	INITIALS	DATE
0	INITIAL ISSUE	STF	MAY 11/84



2	30750-01	01	TROLLEY BLOCK	6061 ALUMINUM	QQ-A-225/8	1.0" ROUND BAR							
01	PART NO.	ITEM	DESCRIPTION	MATERIAL	MATERIAL SPEC	STOCK SIZE							
QTY	LIST OF MATERIALS												
<div style="display: flex; align-items: center; justify-content: space-between;"> <div style="flex: 1; text-align: center;"> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">APPROVALS</div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">DRAWN: S. FAHEY</div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">CHECKED: E. BURGOIN</div> </div> <div style="flex: 1; text-align: center;"> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">DATE</div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">MAY 11/04</div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">MAY 11/04</div> </div> </div>	<div style="text-align: center;"> <p>AERO DESIGN LTD.</p> <p>CONSULTING ENGINEERS, TRANSPORT CANADA APPROVALS, DAR 290M 2013 - 39TH AVENUE N.E., CALGARY, ALBERTA, CANADA, T2E 6R7 tel: (403) 250-8027 fax: (403) 260-8333 aerodesign@telusplanet.net</p> </div>												
	<p>UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES. TOLERANCES ON:</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">DECIMALS</td> <td style="width: 50%;">ANGLES</td> </tr> <tr> <td>X.XXX \pm0.010</td> <td>\pm1/2°</td> </tr> <tr> <td>X.XX \pm0.03</td> <td></td> </tr> <tr> <td>X.X \pm0.1</td> <td></td> </tr> </table>				DECIMALS	ANGLES	X.XXX \pm 0.010	\pm 1/2°	X.XX \pm 0.03		X.X \pm 0.1		<p style="text-align: center;">HELICOPTER RESCUE SYSTEM BELL 206L/L1/L3/L4 HELICOPTERS TROLLEY BLOCKS</p>
DECIMALS	ANGLES												
X.XXX \pm 0.010	\pm 1/2°												
X.XX \pm 0.03													
X.X \pm 0.1													
<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%;">SCALE 1 : 1</td> <td style="width: 25%;">DWG. SIZE</td> <td style="width: 25%;">DWG. NO.</td> <td style="width: 25%;">REV.</td> </tr> <tr> <td>SHEET 1 OF 1</td> <td>A4</td> <td>30750</td> <td>0</td> </tr> </table>				SCALE 1 : 1	DWG. SIZE	DWG. NO.	REV.	SHEET 1 OF 1	A4	30750	0		
SCALE 1 : 1	DWG. SIZE	DWG. NO.	REV.										
SHEET 1 OF 1	A4	30750	0										

NOTES

1. SANDBLAST ALL UNMACHINED SURFACES OF SWIVEL BODY, ITEM 2.
2. THOROUGHLY DEGREASE AND CLEAN.
3. MAGNAFLUX SWIVEL BODY, ITEM 2, PRIOR TO PAINTING.
4. PAINT SWIVEL BODY, ITEM 2, COLOUR INDUSTRIAL YELLOW.
5. LUBRICATE BORE OF BUSHING, ITEM 3, WITH GREASE TO MIL-G-23827 OR MIL-G-81322 ON ASSEMBLY.
6. PROOF LOAD EACH FITTING TO 3,000 LB.



① UNIVERSAL SWIVEL ASSY

② SWIVEL BODY

206L-9804

REF. NO.	ITEM	DESCRIPTION	MATERIAL	MATERIAL SPEC.	STOCK SIZE
1A.7786-037	3	BUSHING	STEEL PLATE, 4130 COND. N	MIL-S-18729	
1006L-9804-02	2	SWIVEL BODY			
0206L-9804	1	UNIVERSAL SWIVEL ASSY			

LIST OF MATERIALS

AERO DESIGN LTD.

1055 McTAVISH ROAD N.E.
CALGARY, ALBERTA T2E 7G9

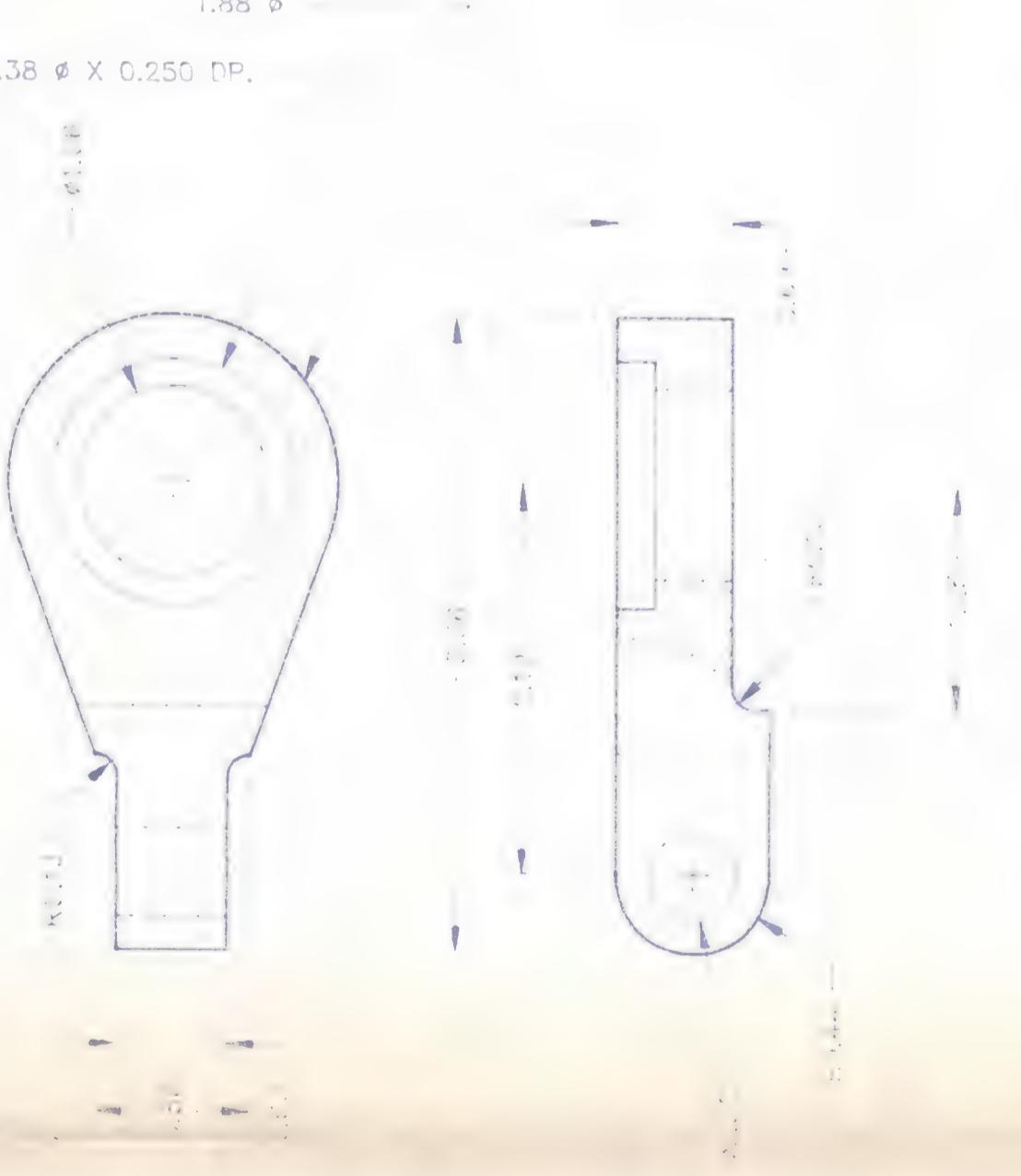
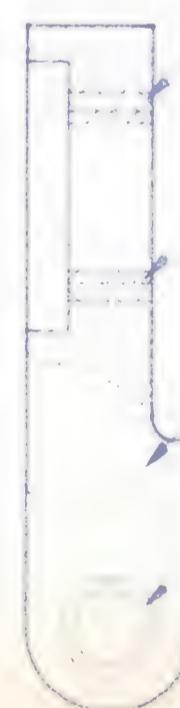
UNIVERSAL SWIVEL ASSY

SCALE 1:1 REV. 0 A2 206L-9804

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NOTES

1. SANDBLAST ALL UNMACHINED SURFACES OF FITTING BODY, ITEM 2.
2. THOROUGHLY DEGREASE AND CLEAN.
3. MAGNAFLUX FITTING BODY, ITEM 2, PRIOR TO PAINTING.
4. PAINT FITTING BODY, ITEM 2, COLOUR INDUSTRIAL YELLOW.
5. LUBRICATE ALL SURFACES OF BUSHING, ITEM 4, WITH GREASE TO MIL-G-23827 OR MIL-G-81322 ON ASSEMBLY.
6. PROOF LOAD EACH FITTING TO 3,000 LB.



① HOOK ATTACHMENT FITTING ASSY

② FITTING BODY

206L-9803

REF. NO.	ITEM	DESCRIPTION	MATERIAL	MATERIAL SPEC.	STOCK SIZE
1A.7786-034	3	BUSHING	STEEL TUBE, 4130 COND. N	MIL-T-6736	0.875 O.D. X 0.750 I.D.
1006L-9804-04	4	BUSHING			
1006L-9804-03	3	BUSHING			
1006L-9804-02	2	FITTING BODY	STEEL PLATE, 4130 COND. N	MIL-S-18729	
1006L-9804	1	HOOK ATTACHMENT FITTING ASSY			

LIST OF MATERIALS

AERO DESIGN LTD.

1055 McTAVISH ROAD N.E.
CALGARY, ALBERTA T2E 7G9

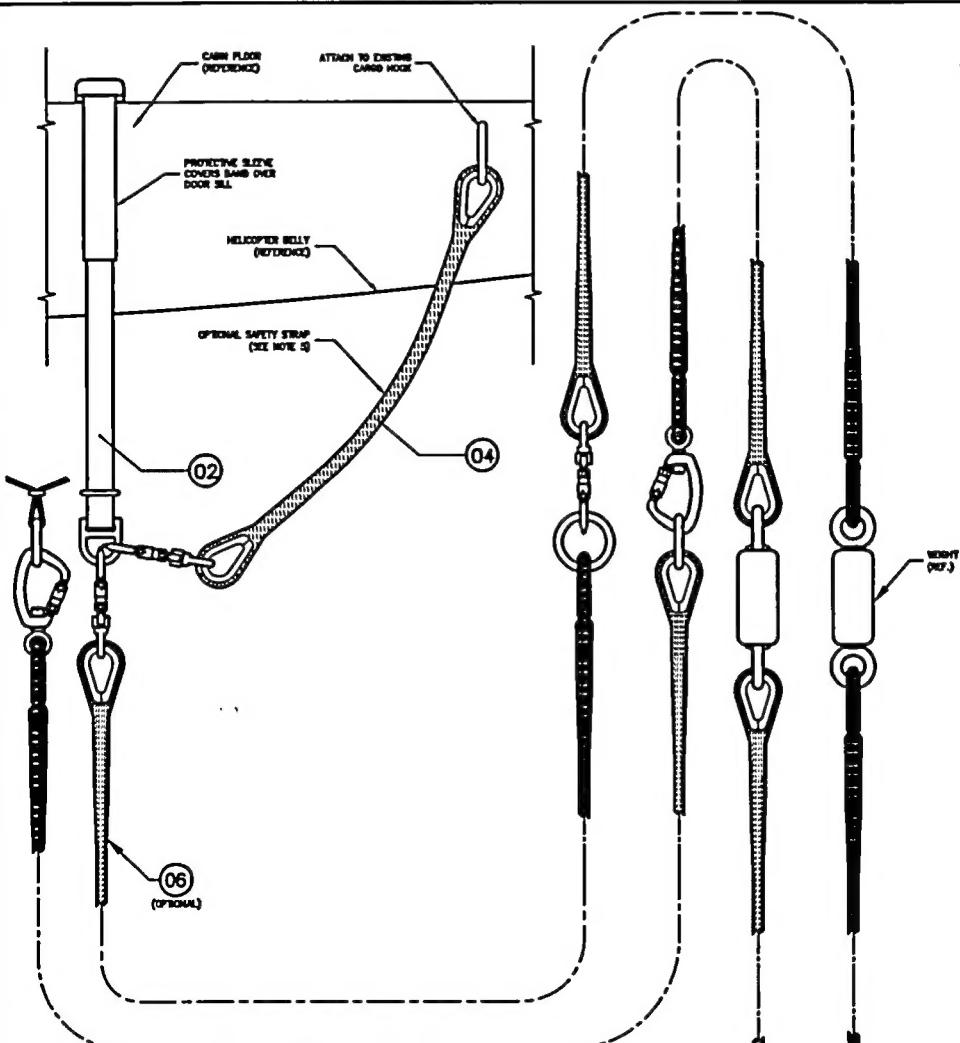
HOOK ATTACHMENT FITTING ASSY

SCALE 1:1 REV. 0 A2 206L-9803

NOTICE
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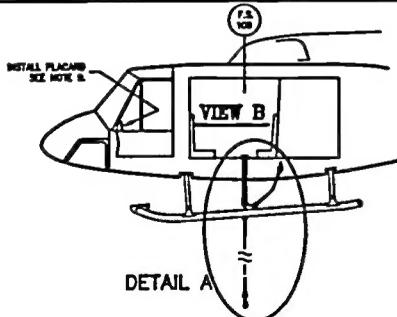
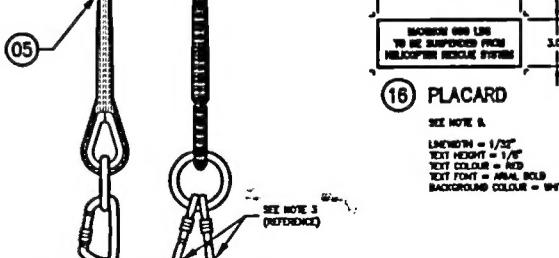
DOCUMENT CONTROL LIST

DOCUMENT NO.	DOCUMENT CONTENT	REVISION
INSTALLATION DOCUMENTS		
30901 FMS 30901 MM 30903	Installation drawing Flight Manual Supplement Maintenance Manual	5 6 4
FABRICATION DOCUMENTS		
30904 30905 30910 30732-401 30733-401 30735-101	Fabrication drawing – Belly Band Fabrication drawing – Capewell Cover Fabrication drawing – Protective Sleeve Rescue System Lanyard Line Assembly Rescue System Extension Line Assembly Splicing Instructions for Ultra-Tech Rope	2 0 0 0 0 0
ENGINEERING DOCUMENTS		
ER309.02 TP309.01 TR309.03	Engineering Report Flight Test Plan Flight Test Report	0 1 0
ER307.101 TR307.02	Engineering Report – Ultra-Tech Ropes Rope Load Test Report	1 0
APPROVAL:	ORIGINAL DATE: 30 September 1998 REVISION DATE: Rev. 3, 12 Jan 2000 Rev. 4, 16 Mar 2005 Rev. 5, 07 April 2005 Rev. 6, 08 July 2005	AERO DESIGN LTD. 1045 McTavish Rd. NE Calgary, Alberta T2E 7G9 Ph. (403) 250-8027 Fax. (403) 250-8333
	SHEET 1 OF 1	Bell 212 Helicopter Rescue System
	DOCUMENT NO.	REVISION
	A-309-DCL1	6

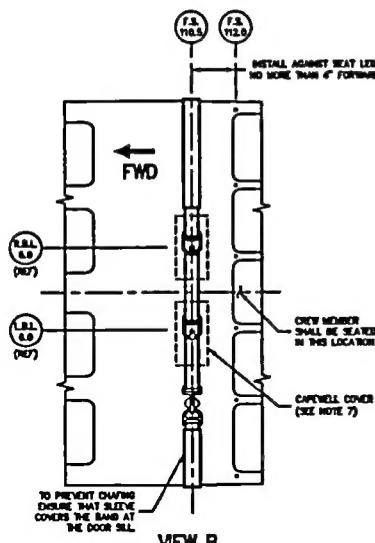


DETAIL A
BELLY BAND AND SUSPENSION LINE

WEIGHT AND BALANCE						
ITEM	DESCRIPTION	WEIGHT (LBS.)	LONGITUDINAL ARM (IN.)	LONGITUDINAL MOMENT (LBS-IN.)	LATERAL ARM (IN.)	LATERAL MOMENT (LBS-IN.)
02	BELLY BAND ASSY	4.0	110.5	442	0.0	0.0
03	CARRIER (TYP. EA)	0.1	110.5	71.1	0.0	0.0
04	SAFETY LINE ASSY	2.0	110.5	268	0.0	0.0
05	SCREAMER LINE ASSY	0.7	110.5	891	0.0	0.0
06	SUSPENSION LINE ASSY	15.0	110.5	1723	0.0	0.0
07	WEIGHT & LANYARD ASSY	13	110.5	1438	0.0	0.0
08	REScue BAR	7.7	110.5	851	0.0	0.0
09	ARMED BELLY BAND HARNESS (TYP. EA)	1.5	110.5	166	0.0	0.0
10	SCREAMER SLT	4.2	110.5	464	0.0	0.0
11	BILLY PUNCH RESCUE NET	50.0	110.5	5010	0.0	0.0
12	EXTENSION LINE ASSY	0.1	110.5	111	0.0	0.0
13	PERSONNEL (RESCUER)	21	110.5	1227	0.0	0.0
14	PERSONNEL (RESCUE)	202	110.5	22321	0.0	0.0
MAXIMUM SUSPENDED LOAD (INCLUDING EQUIPMENT & LINES)						
		800	110.5	64300	0.0	0.0



01 INSTALLATION
NOT TO SCALE



VIEW B
SCALE 1:8

016 PLACARD

SEE NOTE 3
LENGTH = 1/32"
TEXT HEIGHT = 1/16"
TEXT COLOUR = RED
TEXT FONT = ARIAL BOLD
BACKGROUND COLOUR = WHITE

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REV.	DESCRIPTION OF CHANGE	INTRALS	DATE
1	MADE A NEW DRAW	STP	MAY 12/08
	CAPEWELL RECEIVER ADAPTER FOR AIRCRAFT	STP	MAY 12/08
	PART NO. IN MORE CORRECT	E. B.	08 JUN 2000
	COTIETLY REGRADE & UPDATE	STP	JUN 12/08
	UPATED WITH NEW POPE CONFIGURATION, HARDWARE STANDARDS	STP	MAY 14/08

NOTES

1. MAXIMUM TOTAL SLING LOAD (INCLUDING ROPE) TO BE CONNECTED IS 800 LB.
2. FLIGHT MANUAL SUPPLEMENT, FMS 30901, TO BE CARRIED ONBOARD AIRCRAFT WHEN THIS HELICOPTER RESCUE SYSTEM IS INSTALLED.
3. ALL CARRIER'S USED ON THE HELICOPTER RESCUE SYSTEM SHALL:
 - BE CERTIFIED BY AT LEAST ONE OF THE FOLLOWING STANDARDS ORGANIZATIONS AS HAVING AT LEAST MINIMUM STRENGTH AND FUNCTIONAL REQUIREMENTS:
 - 1) THE FEDERATION NATIONALE DES ASSOCIATIONS D'ALPINISME (FNA) #21 ISSUED JANUARY 2004 OR SUBSEQUENT ISSUE.
 - 2) THE NATIONAL FIRE PREVENTION ASSOCIATION (NFA) #163 EFFECTIVE AUGUST 11, 1993 OR SUBSEQUENT ISSUE.
 - 3) THE EUROPEAN STANDARD (EN) 362 ISSUED FEBRUARY 15, 1993 OR SUBSEQUENT ISSUE.
 - 4) THE EUROPEAN STANDARD (EN) 12275, TYPE K, G, OR E, ISSUED JANUARY 2004 OR SUBSEQUENT ISSUE.
 - BE EQUIPPED WITH A LOCKING TYPE CARABINER.
 - BE CLEARLY MARKED BY THE MANUFACTURER WITH THE GUARANTEED MINIMUM STRENGTH OF THE MAJOR AND CAUTION ONLY ONE STRAND OF THE ROPE IS TO BE CONNECTED INTO EACH END OF ANY CARRIER. ONLY ONE PERSONAL CARRIER IS PERMITTED FROM A CARRIER AT ANY TIME. USE OF ANY CARRIER AS A MASTER RING FOR SPLITTING OFF TWO OR MORE LOADS IS PROHIBITED.
4. EQUIPMENT APPROVED FOR SUSPENSION ON THIS SYSTEM INCLUDES, AND IS LIMITED TO, THE FOLLOWING ITEMS:
 - 1) HELICOPTER RESCUE SYSTEM SUSPENSION LINE (30733-401, 30733-401).
 - 2) HELICOPTER RESCUE SYSTEM FLIGHT BELT. REFER TO DMS 08007.
 - 3) HELICOPTER RESCUE SYSTEM SCREAMER SLT. REFER TO DMS 08008.
 - 4) BILLY PUNCH CO. INC. 8704 - RESCUE NET (FAA STC SH-7000-005).
 - 5) FOR BILLY PUNCH CO. INC. 8704 - RESCUE NET (FAA STC SH-7000-005), PART NO. 8915.
 - 6) AN ALTERNATE BELT CONFORMING TO THE STANDARDS OF EN 362 OR EN 12277.
5. FULL BODY HARNESS THAT MEETS THE REQUIREMENTS OF ONE (OR MORE) OF THE FOLLOWING STANDARDS:
 - 1) NFA 1983, CLASS 3 FULL BODY HARNESS.
 - 2) SAS AS 8043 FULL BODY HARNESS.
 - 3) LAC-100 FULL BODY HARNESS.
 - 4) EN 12277 TYPE "A" FULL BODY HARNESS.
 - 5) EN 12277 TYPE "B" FULL BODY HARNESS FOR PERSONS UNDER 40 KG.
 - 6) EN 12277 TYPE "C" AND "D" HARNESS IN COMBINATION.
 - 7) FAI TSO C167 FULL BODY HARNESS.
6. AND BE LABELED AS HAVING MET THE MINIMUM STRENGTH REQUIREMENTS.
7. SAFETY STRAP TO HELICOPTER CARGO HOOK IS OPTIONAL, AT OPERATOR'S DISCRETION, TO PROVIDE AN ADDITIONAL LEVEL OF SAFETY. FABRICATE PER EXTENSION LINE DRAWING 30733-401, TOTAL LENGTH 8 FEET.
8. PRIOR TO FLIGHT, THE RESCUE PERSONNEL TO BE SUSPENDED WILL BE EQUIPPED AS FOLLOWS:
 - 1) HARD HAT AND CLOTHING SUITABLE TO THE CURRENT ENVIRONMENTAL CONDITIONS.
 - 2) A FUNCTIONING COMMUNICATION SYSTEM THAT PERMITS TWO-WAY COMMUNICATION BETWEEN ALL CREW MEMBERS.
 - 3) SHOT CAPABLE OF CUTTING SUSPENSION LINE TO BE USED FOR FREEZING HELICOPTER IF SUSPENSION LINE BECOME ENTANGLED IN TERRAIN OR OBSTACLES.
9. INSTALL CAPEWELL COVER, PART NO. 30901, OVER CAPEWELL CLASP (NOT SHOWN FOR CLARITY).
10. SUSPENSION LINE MAY BE EXTENDED IN LENGTH BY USING EXTENSION LINE (P/N 30733-401). SPECIFY 30 FEET LENGTH OR OTHER LENGTH AS REQUIRED.
11. INSTALL PLACARD (PART # 30901-16) ON INSTRUMENT PANEL IN FULL VIEW OF THE PILOT.

1	30901-16	16 PLACARD (SEE NOTE 9)	3M SCOTCHCAL 7725-10 (0.08mm) VINYL
1	FMS 30901	15 FLIGHT MANUAL SUPPLEMENT	
1	30733-401	14 APPROVED FULL BODY HARNESS	TSO/NFA/FAI/UMA CERTIFIED (SEE NOTE 4)
1	30733-401	13 IPS 0846-SL040	CARTON RESCUE (757200 (2 FT) OR 757200 (5 FT))
1	30733-401	12 BILLY PUNCH RESCUE NET	
1	30733-401	11 SCREAMER SLT	
1	30733-401	10 RESCUE BELT	
1	30901-01	07 CAPEWELL COVER	
1	30733-401	06 EXTENSION LINE ASSEMBLY	OPTIONAL (SEE NOTE 9)
1	30733-401	05 LANYARD AND WEIGHT ASSEMBLY	
1	30733-401-5	04 SAFETY LINE ASSEMBLY	
1	30901-01	03 BELLY BAND ASSEMBLY (250' ONLY)	OPTIONAL (SEE NOTE 5)
1	30901-01	01 BELLY BAND AND SUSPENSION LINE ASSEMBLY	

QTY.	PART NO.	ITEM	DESCRIPTION	MATERIAL SPEC.
LIST OF MATERIALS				
		APPROVALS	DATE	
		MANAG. M. KELBERT	SEPT. 8/08	
		CHECKER E. BURGESS	SEPT. 10/08	

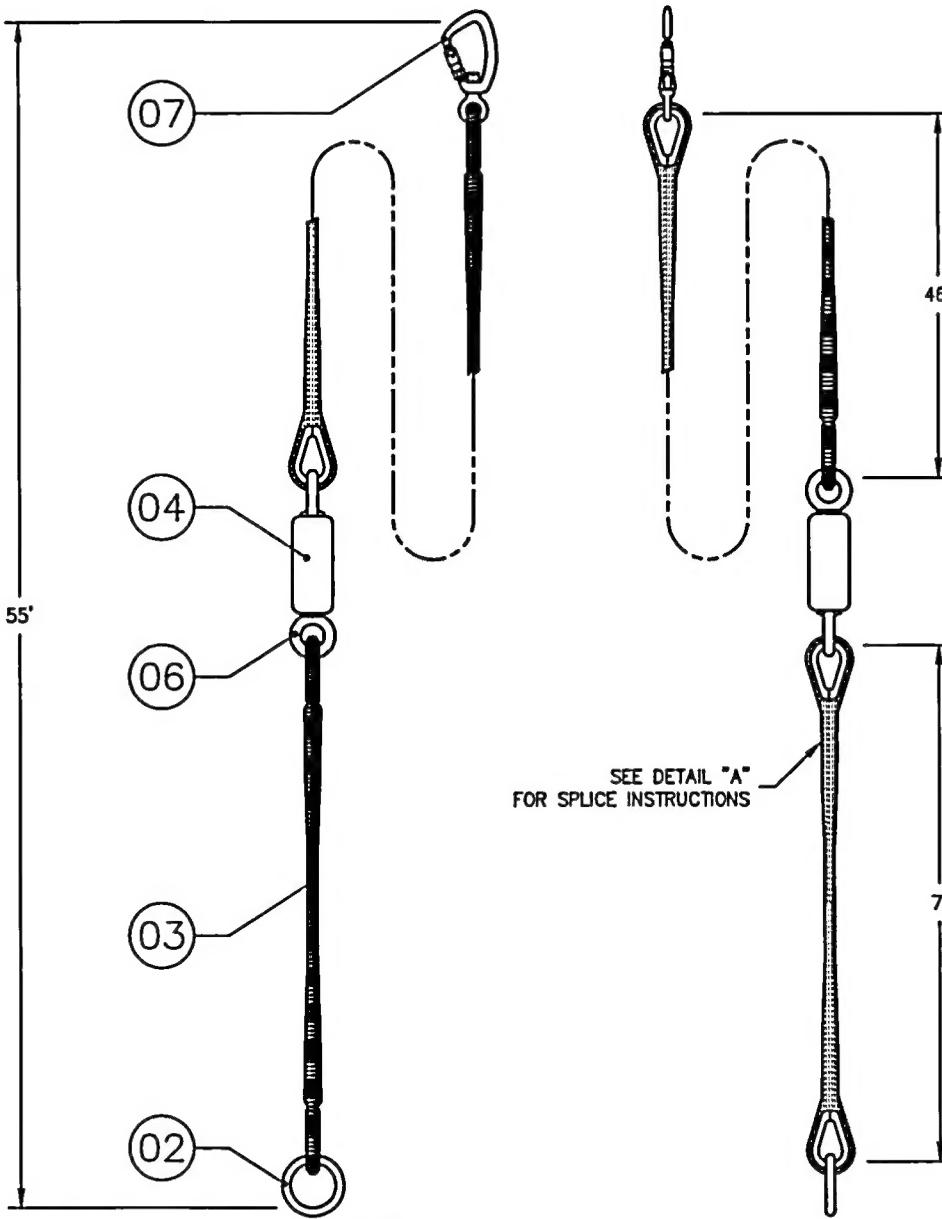
AERO DESIGN LTD.

2013 - 39TH AVENUE NORTHEAST
CALGARY, ALBERTA T2E 6X7

HELICOPTER RESCUE SYSTEM
BELL 204/205/212 HELICOPTER
BELLY BAND AND SUSPENSION LINE INSTALLATION

SCALE 1: 6 SHEET 1 OF 1 A1 30901 5

REV.	DESCRIPTION OF CHANGE	INITIALS	DATE
0	NEW DRAWING, CREATED FROM -101	STF	MAR 14/02



01 LANYARD ASSEMBLY

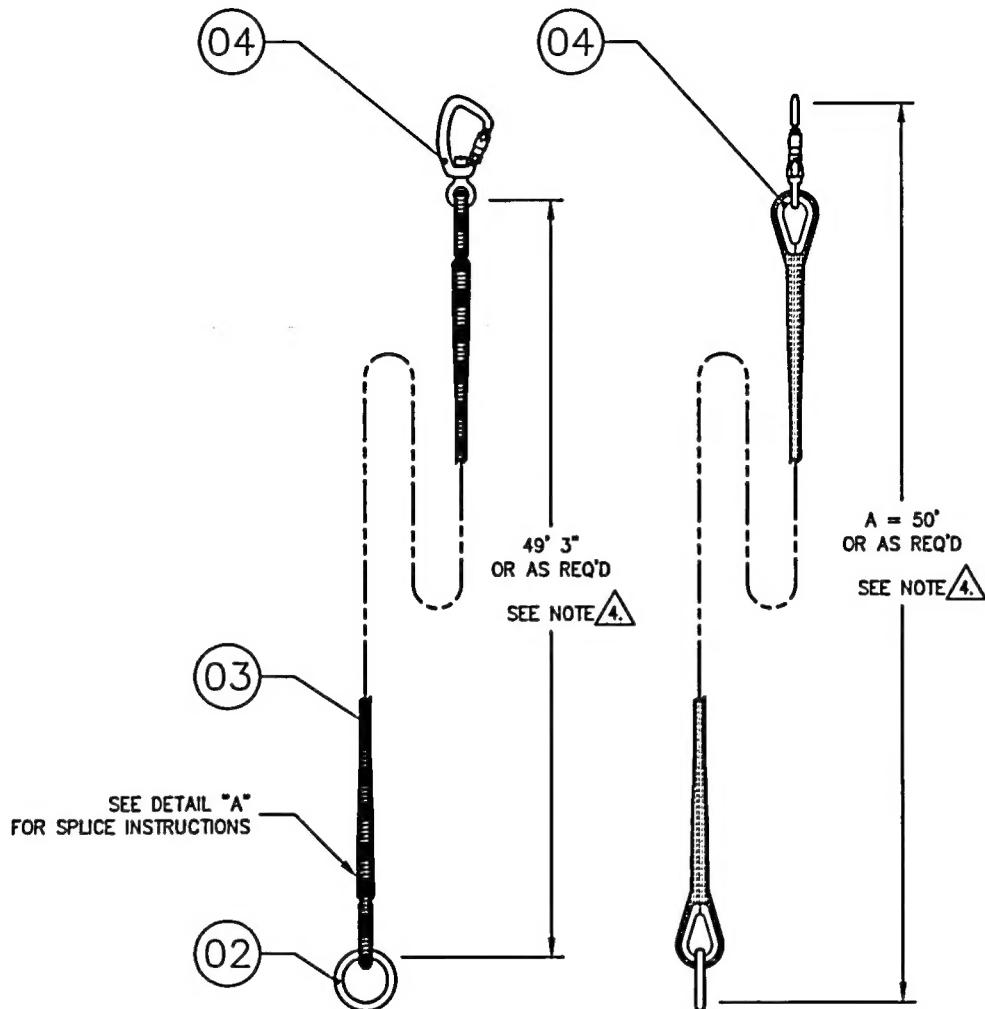
1	C9531	07	SWIVEL-EYE CARABINER	PENINSULA SAFETY	ALT: DNM C970
2	S-279-9900235	06	SHOULDER EYE BOLT	CROSBY CANADA LTD.	
4	G414-1037693	05	WIRE ROPE THIMBLE	CROSBY CANADA LTD.	
	30734-401	04	WEIGHT ASSEMBLY (REF)		
A/R	443	03	ULTRA-TECH DOUBLE BRAID ROPE	SAMSON (HERZOG) ROPE TECH. LTD.	7/16" DIA.
1	5011	02	RING	CARLETON RESCUE	
	30732-401	50	LANYARD ASSEMBLY		55 FEET
50	PART NO.	ITEM	DESCRIPTION	MANUFACTURER	MATERIAL SPEC
QTY.			LIST OF MATERIALS		

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON:
DECIMALS ANGLE
 $X-X'$ $\pm 6''$ -

**HERZOG HELICOPTER RESCUE LINE
HERZOG ULTRA-TECH ROPE SUSPENSION LINE
LANYARD ASSEMBLY**

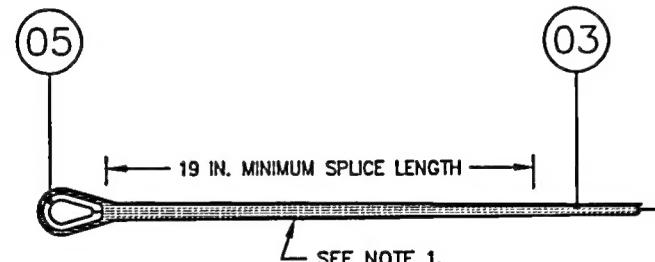
NOT TO SCALE	DWG. SIZE	DWG. NO.	REV.
SET 1 OF 1	A4	30732-401	0

REV.	DESCRIPTION OF CHANGE	INITIALS	DATE
0	NEW DRAWING, CREATED FROM -101	STF	MAR 14/05



NOTES

1. SPLICE TO BE MADE IN ACCORDANCE WITH AERO DESIGN SPECIFICATION 30735-101 "SPLICING INSTRUCTIONS, ULTRA-TECH ROPE".
2. EXTENSION LINE ASS'Y SHALL BE PROOF TESTED TO 3,150 POUNDS.
3. ULTRA-TECH ROPE USED MUST BE CERTIFIED BY THE MANUFACTURER TO A MINIMUM STRENGTH OF AT LEAST 12500 LBS. CERTIFICATION DOCUMENTS TO BE INCLUDED IN SHIPPING DOCUMENTS WITH EACH BATCH PURCHASED.
4. MINIMUM 4 FEET, TO ALLOW FOR SPLICING.



DETAIL "A" - SPLICE DETAILS

01 EXTENSION ASSEMBLY

2	2	G414-1037693	05	WIRE ROPE THIMBLE	CROSBY CANADA LTD.	
1	1	C9531	04	SWIVEL EYE CARABINER	PENINSULA SAFETY	ALT: DMM C970
A/R	A/R	443	03	ULTRA-TECH DOUBLE BRAID ROPE	SAMSON ROPE TECH. LTD.	7/16" DIA.
1	1	5011	02	RING	CARLETON RESCUE	
		30733-401	A	EXTENSION LINE ASSEMBLY (ALTERNATE)	SEE NOTE 4	DIMENSION "A" AS REQUIRED
		30733-401	50	EXTENSION LINE ASSEMBLY (50 FEET)		50 FEET
A	50	PART NO.	ITEM	DESCRIPTION	MANUFACTURER	MATERIAL SPEC.
QTY.	QTY.					

LIST OF MATERIALS

APPROVALS		DATE	AERO DESIGN LTD.	
DRAWN:	STEVEN FAHEY	MAR 14/05		CONSULTING ENGINEERS, TRANSPORT CANADA APPROVALS, DAR 290M 2013 - 39TH AVENUE N.E. CALGARY, ALBERTA, CANADA, T2E 6R7 tel: (403) 250-8227 fax: (403) 250-8333
CHECKED:	E. BURGOIN	MAR 14/05		aerodesign@telusplanet.net
			UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES. TOLERANCES ON: DECIMALS ANGLES $X-X' \pm 6"$ -	HELICOPTER RESCUE LINE HERZOG ULTRA-TECH ROPE SUSPENSION LINE EXTENSION ASSEMBLY
NOT TO SCALE DWG. SIZE DWG. NO.				REV.
SHEET 1 OF 1 A4 30733-401				0